



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

**HS03JFL
THRU
HS03MFL**

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE - 600 to 1000 Volts

CURRENT - 0.3 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Low profile space
- * Low forward voltage drop
- * High forward surge capability
- * Glass passivated junction

MECHANICAL DATA

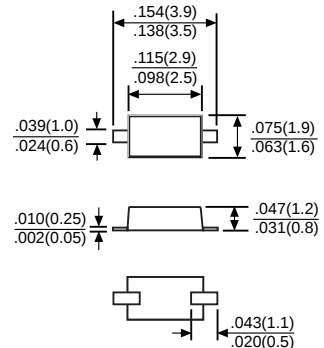
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.017 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



SOD-123FL



Dimensions in inches and (millimeters)

		SYMBOL	HS03JFL	HS03KFL	HS03MFL	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	600	800	1000	Volts
Maximum RMS Voltage		VRMS	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	600	800	1000	Volts
Maximum Average Forward Rectified Current		IO	0.3			Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	15			Amps
Maximum Forward Voltage at 0.3A DC		VF	1.1			Volts
Maximum DC Reverse Current at	@ TA = 25°C	IR	2.0			uAmps
Rated DC Blocking Voltage	@ TA = 125°C		50			
Typical Thermal Resistance (Note 1)		RθJA	220			°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to + 150			°C

NOTES :1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

RATING AND CHARACTERISTIC CURVES (HS03JFL THRU HS03MFL)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

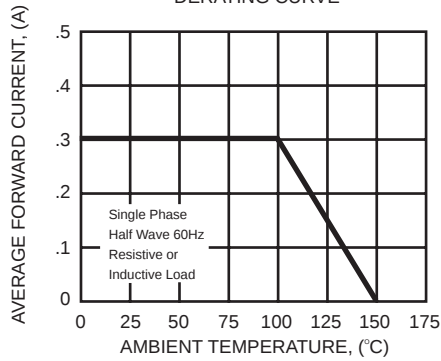


FIG. 2 - MAXIMUM NON-REPETITIVE FOREARD SURGE CURRENT

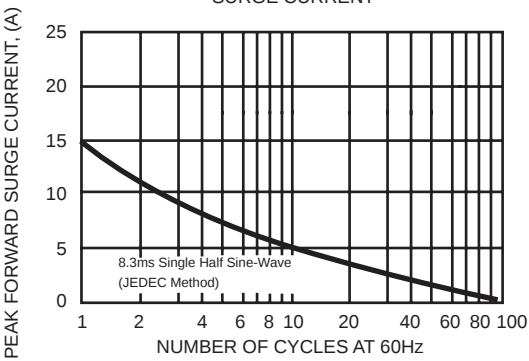


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

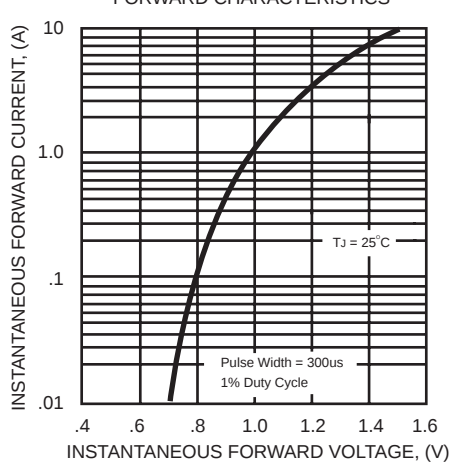


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

